#132, AECS Layout, IT Park Road, Kundalahalli, Bangalore – 560 037
T:+9180 28524466 / 77

CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan

DEPARTMENT OF TELECOMMUNICATION

SEMESTER	:VIII	NAME OF THE FACULTY	:Pooja Kenchetty P
BRANCH	: ECE	DATE OF COMMENCEMENT	:13/02/2017
SUBJECT	:Wireless Communication	DATE OF CLOSING	:02/06/2017
SUB CODE	:10EC81	CLASS STRENGTH	:102
NO. OF HRS/WK	: 5	TOTAL HRS	: 56

Session No.	Chapter no (No. of hrs. planed for chapter)	Date	Topics planned for the session	Teaching Aids	Assignments /Tests planned for the chapter	Topics covered As per plan
1	1/7	16/2/17	UNIT - 1 Introduction to wireless telecommunication systems & Networks	Board, chalk, duster		
2	2/7	16/2/17	History and Evolution of wireless cellular networks 1g	,,		
3	3/7	17/2/17	Evolution of wireless cellular networks 1g	,,		
4	4/7	18/2/17	AMPS (detail)	,,		
5	5/7	18/2/17	Overview of 2Gsystem	Projector , Board, chalk, duster		
6	6/7	23/2/17	Overview of 3Gsystem	Board, chalk, duster		
7	7/7	23/2/17	Overview of 4G system	Projector , Board, chalk, duster		
8	1/8	2/3/17	UNIT - 2 Common Cellular System components	,,		
9	2/8	9/3/17	Block diagram of SD & subsystem	,,		
10	3/8	9/3/17	Base switching center and working of RBS	,,		
11	4/8	10/3/17	Mobile switching Center, subsystem and working,	,,		
12	5/8	10/3/17	Databases of cellular system, HLR,VLR,EIR,ILR,AUC	,,		

13	6/8	11/3/17	Hardware and software, views of cellular networks.	Projector , Board, chalk, duster		
14	7/8	16/3/17	Cellular component identification.	,,		
15	8/8	16/3/17	Call Establishment	Board, chalk, duster		
16	1/7	23/3/17	UNIT - 3 Wireless network architecture and operation, Cellular concept	,,		
17	2/7	23/3/17	Cell fundamentals & Examples	,,		
18	3/7	24/3/17	Capacity expansion techniques	,,		
19	4/7	25/3/17	Cellular backbone networks	,,		
20	5/7	25/3/17	Mobility management	Projector , Board, chalk, duster		
21	6/7	31/3/17	Radio resources & Power management	,,		
22	7/7	31/3/17	Wireless network security	,,		
23	1/8	6/4/17	UNIT - 4 GSM and TDMA techniques	Board, chalk, duster		
24	2/8	7/4/17	GSM system overview	,,		
25	3/8	7/4/17	GSM Network and system Architectures	,,		
26	4/8	8/4/17	GSM Network and system Architecture	,,		
27	5/8	8/4/17	GSM signaling Model	,,		
28	6/8	13/4/17	GSM channel concepts	,,		
29	7/8	20/4/17	Mapping of logical channels	,,		
30	8/8	20/4/17	GSM identifiers	,,		
31	1/7	21/4/17	UNIT - 5 GSM system operation.	,,		
32	2/7	21/4/17	Initialization Operations	,,		
33	3/7	22/4/17	Traffic cases	Board, chalk, duster		

34	4/7	27/4/17	Roaming,	Projector , Board, chalk, duster		
35	5/7	27/4/17	Handover	,,		
36	6/7	28/4/17	GSM protocol architecture	,,		
37	7/7	28/4/17	TDMA systems	,,		
38	1/6	4/5/17	UNIT - 6 CDMA technology	,,		
39	2/6	5/5/17	CDMA overview	Board, chalk, duster		
40	3/6	5/5/17	CDMA channel concept	,,		
41	4/6	6/5/17	Generation of different channels	Projector , Board, chalk, duster		
42	5/6	6/5/17	CDMA operations.	,,		
43	6/6	11/5/17	Comparison between CDMA and GSM architectures.	,,		
44	1/5	12/5/17	UNIT - 7 Wireless Modulation techniques and Hardware	,,		
45	2/5	12/5/17	Characteristics of air Interface & Path loss models	,,		
46	3/5	13/5/17	Wireless coding techniques	,,		
47	4/5	13/5/17	Digital modulation techniques - OFDM	,,		
48	5/5	18/5/17	UWB radio techniques, Diversity techniques & Typical GSM Hardware	,,		
49	1/6	19/5/17	UNIT - 8 Introduction to wireless LAN 802.11X technologies	Projector , Board, chalk, duster		
50	2/6	19/5/17	Evolution of wireless LAN technology	,,		
51	3/6	20/5/17	Introduction to 802.15X technologies in PAN - Application and architecture Bluetooth	,,		
52	4/6	20/5/17	Introduction to Broadband wireless MAN, 802.16X technologies	,,		
53	5/6	25/5/17	Wireless MAN	,,		

54	6/6	26/5/17	Applications & Revision	,,		
55	-	27/5/17	Revision and Question Paper Discussion	Board, chalk, duster		
56	-	27/5/17	Revision and Question Paper Discussion	,,		

Signature of faculty **Signature of HOD**

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CMR INSTITUTE OF TECHNOLOGY

Session wise- Course Plan

Department of ECE

SEMESTER : *8*
BRANCH : *ECE*
SUBJECT : *Network Security*
SUBJECT CODE : *10EC832*
NO OF HRS/WK : *5*

NAME OF THE FACULTY : *Mr. Harsha B. K.*
DATE OF COMMENCEMENT : *13.02.2017*
DATE OF CLOSING : *20.05.2017*
CLASS STRENGTH : *200[A, B, C & D]*
TOTAL HRS : *59*

Class #	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topics covered As per plan
1	1/1	16/02/2017	**Unit 1**: Introduction, Services	Board, chalk, duster, projector		
2	2/1	16/02/2017	Mechanisms and attacks,	,,		
3	3/1	17/02/2017	The OSI security architecture	,,		
4	4/1	17/02/2017	A model for network security.	,,		
5	1/2	18/02/2017	**Unit 2**: Symmetric Cipher Model	,,		
6	2/2	23/02/2017	Substitution Techniques,	,,		
7	3/2	23/02/2017		,,		
8	4/2	02/03/2017	Transposition Techniques	,,	Assignment-1	
9	5/2	02/03/2017		,,		
10	6/2	09/03/2017	Simplified DES	,,		
11	7/2	09/03/2017		,,		
12	8/2	10/03/2017	Data encryption standard (DES)	,,		
13	9/2	10/03/2017	The strength of DES	,,		

14	10/2	11/03/2017	Differential and Linear Cryptanalysis	"		
15	11/2	16/03/2017	Block Cipher Design Principles and Modes of Operation,	"		
16	12/2	16/03/2017		"		
17	13/2	17/03/2017	Evaluation Criteria for Advanced Encryption Standard, The AES Cipher	"		
18	14/2	17/03/2017		"		
19	1/3	18/03/2017	**Unit 6**: Intruders,	"		
20	2/3	23/03/2017		"		
21	3/3	23/03/2017	Intrusion Detection,	"		
22	4/3	24/03/2017		"		
23	5/3	24/03/2017	Password Management	"	IAT-1	
24	6/3	31/03/2017		"		
25	1/4	31/03/2017	**Unit 3:** Principles of Public-Key Cryptosystems	"		
26	2/4	01/04/2017	The RSA algorithm	"		
27	3/4	01/04/2017		"		
28	4/4	06/04/2017	Key Management,	"		
29	5/4	06/04/2017	Diffie - Hellman Key Exchange,	"		
30	6/4	07/04/2017		"		
31	7/4	07/04/2017	Elliptic Curve Arithmetic,	"		
32	8/4	08/04/2017		"		
33	9/4	13/04/2017	Authentication functions	"		
34	10/4	13/04/2017	Hash Functions.	"		
35	1/5	20/04/2017	**Unit 7**: Viruses and Related Threats	"	Assignment-2	
36	2/5	20/04/2017		"		
37	3/5	21/04/2017		"		
38	4/5	21/01/2017		"		
39	5/5	22/04/2017	Virus Countermeasures	"		
40	6/5	27/04/2017		"		
41	7/5	27/04/2017		"		
42	1/6	28/04/2017	**Unit 4:** Digital signatures,	"		
43	2/6	28/04/2017		"		
44	3/6	04/05/2017	Authentication Protocols,	"		
45	4/6	04/05/2017		"		
46	5/6	05/05/2017		"	IAT-2	
47	6/6	05/05/2017	Digital Signature Standard	"		
48	7/6	11/05/2017		"		
49	1/7	11/05/2017	**UNIT 5**: Web Security Consideration	"	Assignment-3	
50	2/7	12/05/2017		"		
51	3/7	12/05/2017	Security socket layer (SSL) and Transport layer security	"		
52	4/7	13/05/2017		"		
53	5/7	18/05/2017	Secure Electronic Transaction	"		
54	1/8	18/05/2017	**Unit 8:** Firewalls Design Principles,	"		
55	2/8	19/05/2017		"		
56	3/8	19/05/2017		"		
57	4/8	20/05/2017	Trusted Systems.	"		
58	5/8	20/05/2017		"	IAT-3	

Syllabus for Internal Assessment Test (IAT)*

Internal Assessment Test	Syllabus

T1 (1, 2, 6)	Class # 01 – 24
T2 (3, 7)	Class # 25 – 41
T3 (4, 5, 8)	Class # 42 – 60

*** See calendar of events for the schedules of IATs.**

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB	Cryptography and Network Security,(PRICPLES AND PRACTICES) William Stalling,	Pearson Education, 2003.	81-203-2385-8
References	RB1	Cryptography and Network Security, Behrouz A. Forouzan,	TMH, 2007.	978-0-07-066046-5
References	RB2	Cryptography and Network Security, Atul Kahate,	TMH, 2003.	81-203-1278-3

Note: *From time to time, assignments will be posted on*

https://sites.google.com/a/cmrit.ac.in/harsha_bk/

https://sites.google.com/a/cmrit.ac.in/cmrdigitallibrary/calender-of-events

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CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan

Department of Electronics and Communication

SEMESTER : VIII
BRANCH : ECE
SUBJECT : MMC
SUBJECT CODE: 10EC841
NO OF HRS/WK: 5

NAME OF THE FACULTY : Eisha Akanksha
DATE OF COMMENCEMENT : 16.02/2017
DATE OF CLOSING : 24.05.2017
CLASS STRENGTH :52/55
TOTAL HRS : 52

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assign ments/ Tests planned for the chapter	Topics covered As per plan

	UNIT-1	**16/2**	UNIT-1 INTRODUCTION, MULTIMEDIA INFORMATION REPRESENTATION, MULTIMEDIA NETWORK, Multimedia applications, media types	Board, chalk, duster		
	UNIT-1	**17/2**	media types, communication modes, network media types	,,		
	UNIT-1	**18/2**	Communication modes, network types			
	UNIT-1	**23/2**	Multipoint conferencing, network QOS application			
	UNIT-2	**2/3**	Introduction, digital principles			
	UNIT-2	**9/3**	digital principles			
	UNIT-2	**10/3**	Text, images			
	UNIT-2	**11/3**	audio, video			
	UNIT-3	**16/3**	Introduction, Compression principles			
	UNIT-3	**17/3**	Text compression			
	UNIT-3	**18/3**	Image compression			
	UNIT-4	**23/3**	Introduction, audio compression,			
	UNIT-4	**24/3**	DPCM. ADPCM			
	UNIT-4	**31/3**	APC, LPC, video compression,			
	UNIT-4	**1/4**	Video compression principles			
	UNIT-4	**6/4**	H.261, H.263,			
	UNIT-4	**7/4**	MPEG ,MPEG-1,			
	UNIT-4	**8/4**	MPEG-2,			
	UNIT-5	**13/4**	MPEG-3			
	UNIT-5	**20/4**	Introduction, LAN,Ethernet,			
	UNIT-5	**21/4**	Token Ring, Bridges, FDDI,			
	UNIT-6	**22/4**	High Speed LAN, LAN protocol			
	UNIT-6	**27/4**	Introduction, IP datagram, Fragmentation			

	UNIT-6	**28/4**	IP address, ARP			
	UNIT-6	**4/5**	RARP, QoS Support,			
	UNIT-6	**5/5**	IPV8			
	UNIT-7	**11/5**	Introduction, Cell format			
	UNIT-7	**12/5**	Switch, protocol architecture			
	UNIT-7	**13/5**	ATMLAN			
	UNIT-8	**18/5**	Introduction, TCP/IP,			
	UNIT-8	**19/5**	TCP,UDP			
	UNIT-8	**20/5**	, RTP, RCTP			

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